BRUCE ANCHOR

# BRUCE® BOOSTER
(PATENTS PENDING)

- **Superior high holding capacity even in shallow layers of sediment**
- **Eliminates expensive shackles, pear links, and piggy-back anchors**
- **Easily assembled on chain mooring lines**
- **Freights in standard containers for up to 120mm chain size**
- **Low load recovery by mooring line**


**The Bruce Booster is a fluked burying device for mounting in series on a chain mooring line in front of a conventional drag-embedment anchor to increase the holding capacity obtainable from the anchor. The Booster counteracts penetration resistance of the chain to enable the anchor to bury deeper to provide increased holding capacity. Each Booster also acts as a tandem anchor which adds additional holding capacity to the chain mooring line, even in shallow layers of sediment in which the burial depth of the anchor is restricted.**

**The Booster comprises a fluke attached to a shank and is constructed as a pair of port and starboard halves which are pocketed to accommodate chain links on being bolting together sideways onto the mooring chain. The width of the assembled shank is less than the over-all width of a chain link, so the shank of the Booster adds negligible soil penetration resistance while its fluke overcomes the penetration resistance of adjacent chain links and actively buries the chain. A series of Boosters in tandem with a relatively small conventional drag-embedment anchor can provide unprecedented high holding capacity to match the breaking load of any chain while permitting low load recovery due to step-wise rotation of boosters when heaving up on the mooring line.**

**Since the Booster applies axial and transverse forces to the chain in a manner identical to that occurring in a wildcat (Gypsy), the chain suffers no stress or fatigue disadvantages. Splays at the ends of the shank plates of the Booster permit sufficient articulation of the chain to eliminate need for expensive connectors such as shackles or pear links, thus significantly reducing overall system cost. Additionally, the split construction of the Booster enables low cost freighting in standard containers for all sizes of chain.**

**The Bruce Booster constitutes game-changing technology for mooring systems.**

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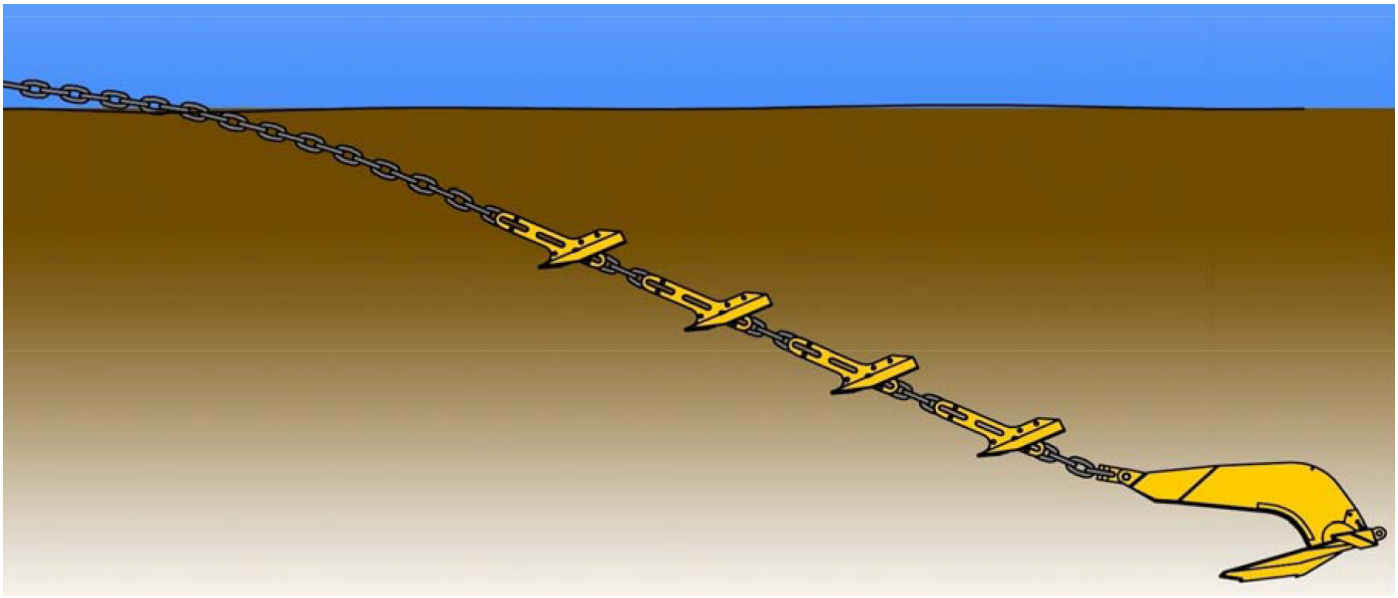
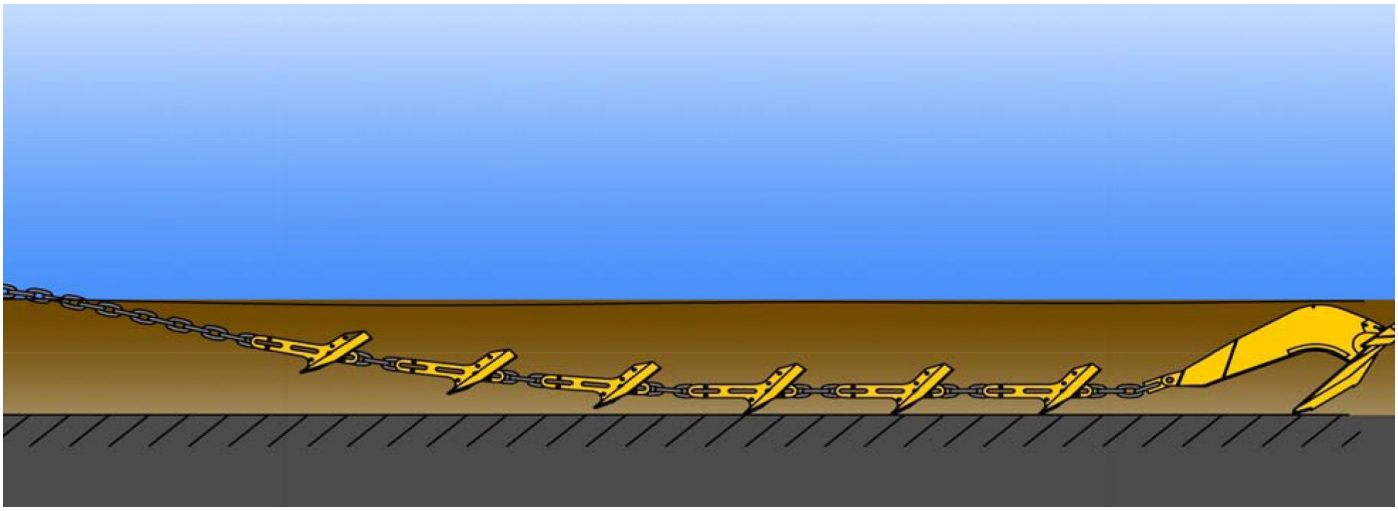


**In deep sediments, higher holding capacity is obtained from increased penetration of the anchor with a significant share of total capacity added by the boosters.**



**In shallow sediments, where anchor penetration is restricted, a greater share of the total capacity is added by the boosters.**

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